

12/19/97  
J525 U.S. PTO

U.S. Express Mail No.: E1215536970US

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

In re Application Of	)	<u>PATENT APPLICATION</u>
Inventors: Peijun Ding	)	Docket No. AM-1776
Tony Chiang	)	
Barry L. Chin	)	
Serial No.: Not Yet Assigned	)	
Filed: Herewith	)	
Title: A TAILORED BARRIER LAYER WHICH	)	
PROVIDES IMPROVED COPPER	)	
INTERCONNECT ELECTROMIGRATION	)	
RESISTANCE	)	
	)	

CERTIFICATE OF MAILING BY "EXPRESS MAIL"  
UNDER 37 C.F.R. § 1.10

"EXPRESS MAIL" MAILING LABEL NUMBER: E1215419063US  
DATE OF DEPOSIT: December 19, 1997

I hereby certify that this correspondence is being deposited with the United States Postal Service, "Express Mail Post Office to Addressee" service under 37 CFR 1.10 with MAILING LABEL NUMBER filled in above, addressed to The Assistant Commissioner for Patents, Box Patent Application, Washington, D.C. 20231 on the DATE OF DEPOSIT filled in above.

*Kathi Rafayko* \_\_\_\_\_ (Signature)  
Kathi Rafayko, Reg. No. 367644  
(Type Name)

Signature Date: December 19, 1997

**APPLICATION TRANSMITTAL LETTER**

Assistant Commissioner for Patents  
Washington, D.C. 20231  
**Attn: BOX PATENT APPLICATION**

Sir:

Transmitted herewith for filing is the patent application identified as follows:

Inventor(s): Peijun Ding  
                  Tony Chiang  
                  Barry L. Chin

Title: A TAILORED BARRIER LAYER WHICH PROVIDES IMPROVED  
                  COPPER INTERCONNECT ELECTROMIGRATION RESISTANCE

No. of pages of Specification: 16; No. of pages of Claims: 6; No. of pages of Abstract: 1

No. of Sheets of Drawings: 2; Formal:   , Informal: X.

Also enclosed are:

- X A Declaration and Power of Attorney.
- X An Assignment. Recording of the Assignment is hereby requested.
- A Power of Attorney.
- An Information Disclosure Statement under 37 C.F.R. §1.56.

### FEES DUE

The fees due for filing the specification pursuant to 37 C.F.R. §1.16 and for recording of the Assignment, if any, are determined as follows:

CLAIMS					
	NO. OF CLAIMS		EXTRA CLAIMS	RATE	FEES
Basic Application Fee					\$ 790.00
Total Claims	31	MINUS 20=	11	x \$22 =	242.00
Independent Claims	5	MINUS 3 =	2	x \$82 =	164.00
If multiple dependent claims are presented, add \$270.00					270.00
Add Assignment Recording Fee of \$40.00 if Assignment document is enclosed					40.00
<b>TOTAL APPLICATION FEE DUE</b>					<b>1,506.00</b>

### PAYMENT OF FEES

1. The full fee due in connection with this communication is \$1,506.00, and is provided as follows:
  - [x] Check No. 448 in the amount of \$1,506.00 is enclosed.
  - [x] The Commissioner is hereby authorized to charge any additional fees which may be due under 37 C.F.R. § 1.16(a), § 1.16(b), § 1.16(c) or § 2.1(h) or to credit any overpayment to Deposit Account No. 01-1651 of Applied Materials, Inc. of Santa Clara, California. A duplicate copy of this authorization is enclosed.

Please direct all correspondence concerning the above-identified application to the following address:

Patent Counsel  
Applied Materials, Inc.  
P.O. Box 450-A  
Santa Clara, California 95052

Please direct telephone inquiries to:

Shirley L. Church, Esq.  
(408) 745-1567

Respectfully submitted,

Date: Dec 19, 1997

By: 

Kathi Rafayko  
Agent for Applicants  
Reg. No. 36,644